CLAIMS

1. A chemical agent delivery system comprising:

a chemical agent supplied to a body of a subject for delivery to a site in a central nervous system of said subject via blood of said subject; and a stimulator for stimulating parasympathetic fibers associated with the sphenopalatine ganglion, thereby to render a blood brain barrier (BBB) of said subject permeable to said chemical agent during at least a portion of the time that said chemical agent is present in said blood.

2. A chemical agent delivery system according to claim 1 and wherein said chemical agent is a therapeutic agent.

3. A chemical agent delivery system according to claim 1 and wherein said chemical agent is a diagnostic agent.

4. A chemical agent delivery system according to claim 3 and wherein said diagnostic agent comprises a contrast defining agent and wherein said system also comprises a contrast sensor which is operative to facilitate a diagnosis.

5. A chemical agent delivery system according to claim 3 and wherein said diagnostic agent comprises an antibody.

6. A chemical agent delivery system according to any of claims 1 - 5 and wherein said stimulator comprises an electrical stimulator.

7. A chemical agent delivery system according to any of claims 1 - 5 and wherein said stimulator comprises an odorant stimulator.

8. A chemical agent delivery system according to claim 7 and wherein said odorant stimulator comprises a neuroexcitatory agent.

9. A chemical monitoring system comprising:

a stimulator for stimulating parasympathetic fibers associated with a sphenopalatine ganglion of a body of a subject, thereby to render a blood brain barrier (BBB) of the subject permeable to a chemical disposed in a central nervous system of said subject during at least a portion of the time that said chemical is present in said central nervous system; and

a blood interface unit operative to facilitate analysis of said chemical which has passed through said BBB into blood of said subject.

10. A chemical transfer method comprising reducing concentration of a chemical in a central nervous system of a subject, by stimulating parasympathetic fibers associated with the sphenopalatine ganglion of said subject thereby to render a blood brain barrier (BBB) of said subject permeable to said chemical.

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